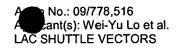


FIG. 1

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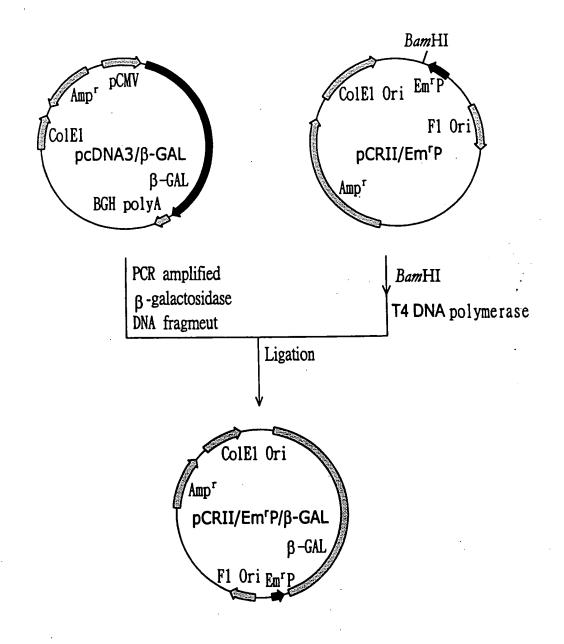


FIG. 2

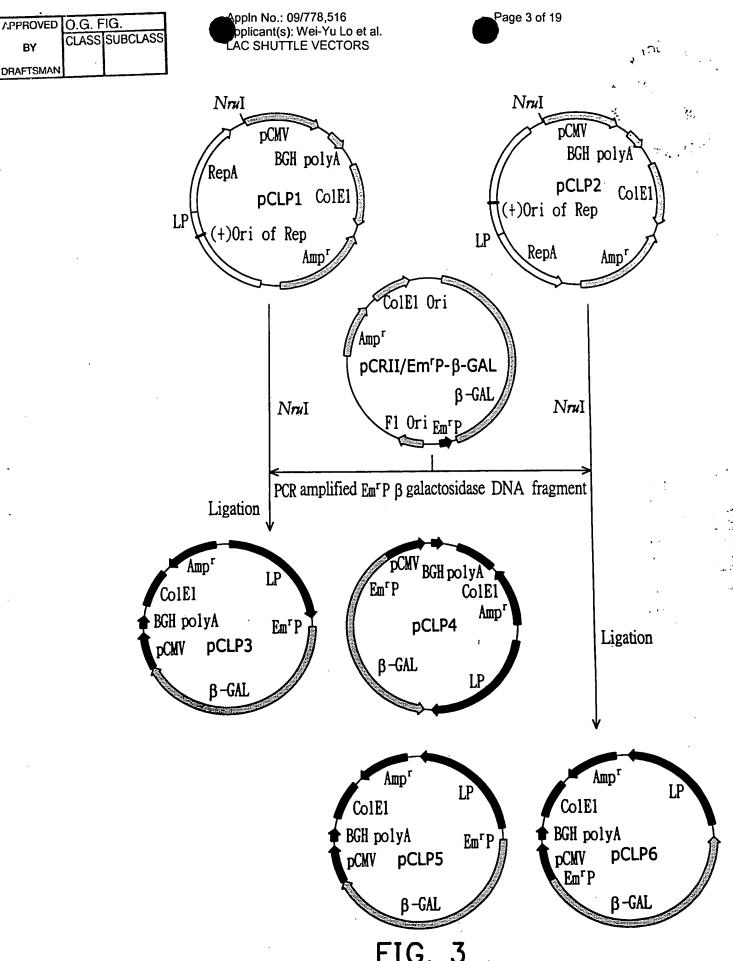


FIG. 3

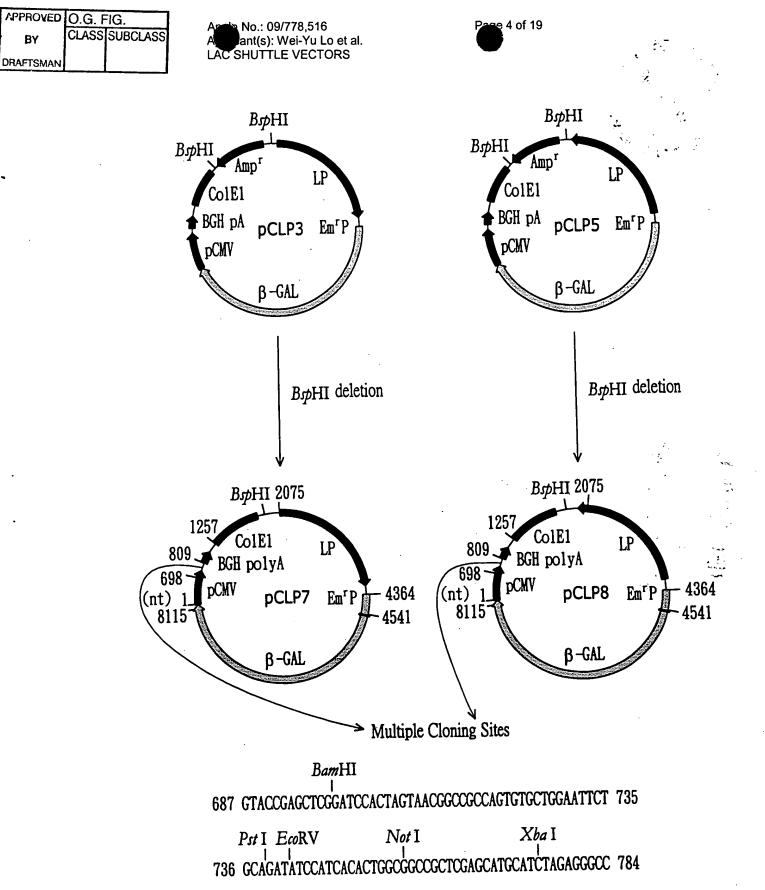
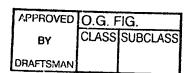
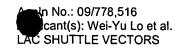


FIG. 4







					r.*	
10 GATGTACGGG	CCAGATATAC	GCGTTGACAT '	TGATTATTGA	CTAGTTATTA		4
70 ATTACGGGGT	80 CATTAÇTTCA	90 TAGCCCATAT	100 ATGGAGTTCC	110 GCGTTACATA	120 ACTTACGGTA	Company of the State of the Sta
130 AATGGCCCGC	140 CTGGCTGACC	150 GCCCAACGAC	160 CCCCGCCCAT	170 TGACGTCAAT	180 AATGACGTAT	
190 GTTCCCATAG	200 TAACGCCAAT	210 AGGGACTTTC	220 CATTGACGTC	230 AATGGGTGGA	240 CTATTTACGG	
250 TAAACTGCCC	260 ACTTGGCAGT	270 ACATCAAGTG	280 TATCATATGC	290 CAAGTACGCC	300 CCCTATTGAC	
310 GTCAATGACG	320 GTAAATGGCC	330 CGCCTGGCAT	340 TATGCCCAGT	350 ACATGACCTT	360 ATGGGACTTT	
370	380	390	400	410	420 GCGGTTTTGG	<u> </u>
430	440	450	460	470	480 TCTCCACCCC	
490	500	510	520	530	540 AAAATGTCGT	
550	560	570	580	590) 600 A GGTCTATATA	FIG. 5B
610	620	630	640	650	060 A AATTAATACG	FIG. 5C
670	680	690	700	71	0 720 A ACGGCCGCCA	1 , 1
73(740	750	76	n 77	0 780 T GCATCTAGAG	1 1
79	0 800	810	82	0 83	0 840 C GACTGTGCCT	
85	0 860	870	0 88	0 89	00 900 CCCTGGAAGGT	FIG. 5E
91	0 920	93(0 94	0 95	50 960 FG TCTGAGTAGG	
97	0 980	99	0 100	0 10:	1020 A TTGGGAAGAO	FIG. 5F
103	0 104	n 105	0 106	50 10°)
109	0 110	0 111	0 112	20 11	30 1140 GG CGCTCTTCCC	
115	0 116	0 117	0 11	30 11	90 1200 CG GTATCAGCT	0

FIG. 5A

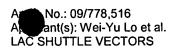
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Apple (s): 09/778,516 Apple (s): Wei-Yu Lo et al. LAC SHUTTLE VECTORS



					3
1210 ACTCAAAGGC G	1220	1230	1240	1250	1260 AAGAACATGT
ACICAAAGGC G	1280	AICCACAG A	1200	1210	1320
1270 GAGCAAAAGG C	1280 CAGCAAAAG G	1290 CAGGAACC G	UUEI CORAAAAGT	CCCCTTCCTC	
1330 ATAGGCTCCG C	1340 CCCCCTGAC G	1350 AGCATCACA A	AAATCGACG	CTCAAGTCAG	AGGTGGCGAA
	1400				
1390 ACCCGACAGG A	1400 CTATAAGA T	1410 ACCAGGCGT T	TCCCCCTGG	AAGCTCCCTC	GTGCGCTCTC
	1460				
CTGTTCCGAC (CTGCCGCTT A	CCGGATACC T	GICCGCCIT	TCTCCCTTCG	GGAAGCGTGG
	1520				
CCTTTCTCA A	ATGCTCACGC T	GTAGGTATC :	rcagi i cggi	GIAGGICGII	CGCICCAAGC
1570	1580	1590	1600	1610	1620
TGGGCTGTGT (GCACGAACCC C	CCGTTCAGC (CCGACCGCTG	CGCCTTATCC	GGTAACTATC
1630	1640	1650	1660	1670	1680
GTCTTGAGTC	CAACCCGGTA A	GACACGACT	TATCGCCACI	' GGCAGCAGC	ACIGGIAACA
1690	1700	1710	1720	1730	1740
GGATTAGCAG	AGCGAGGTAT (TAGGCGGIG	CIACAGAGI.	CITGAAGIG	J IGGCCIAACI
1750	1760	1770	1780	179	0 1800
					A GITACCTICG
1810	1820	1830	184) 185 CONCOTAG	0 1860 C GGTGGTTTT
					C GGTGGTTTTT
1870	1880	1890	190	0 191 C TCAAGAAGA	0 1920 T CCTTTGATCT
1930	1940	1950 CAGTGGAACG	AAAACTCAC	G TTAAGGGAT	0 1980 TT TIGGTCATGA
TTCTACGGC	0101010001	2010	202	00 203	30 2040
1990 GCGGATACAT	ATTIGAATGT	ATTTAGAAAA	ATAAACAA	AT AGGGGTTC	CG CGCACATITC
2050	2060	2070	208	30 20	90 2100
CCCGAAAAGT	GCCACCTGAC	GTCGACGGAT	CGGGAGATY	A ACGGTAAA	TC CGTTGGCATA
0110	2120	2130	21,	10 21	50 2160
TCCCTTTTT	GITGICAGCT	TGCTGACTTC	TGATACAG	TTTAGCAT	TA CTCCAATTTA
2170	2180	2190	22	00 22	10 2220
TTTGGAGIGT	AAGIGCACAT	TATCATGTAG	TGCGCATT	AT CATGIAGI	GC GCATTATCAT
2230	2240	2250	22	60 22	2280 2280 TCD TCTACTICCIC
GTAGTGCGCA	TTATCATGTA	GTGCGCATTY	A TCATGIAG	IG CGCATTAI	CA IGIAGIGE
2290	2300	231	23	20 23	330 2340
ATTATCATGI					CAT TATCATGTAG
2350	2360	237	0 23 אדיגאמידיארייע יי	80 2: CG CATTATC	390 2400 ATG TAGTGCGCAC
TGCGCACATT	. ATCATGIAGI	GOGNITAL	C ALUMNIC]	FIG. 5B

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					.
2410 TTACACACAA	2420 CATGAAGTTG	2430 TGTTGTGCTA	2440 AACCCATCAA	2450 AACCTGCATC	2460
2470	2480	2490	2500	2510	2520
TTGCTCAAAC					
2530 GCTAGCTCCT	2540 TCGAACTTTT	2550 TTATTTTTGA	2560 ACGTTAATTT	2570 TAAAGGCTCT	2580 TATTTGCGTT
2590 CTAAGCGATT	2600 TTAGCTAACA	2610 GTTAGCTATC	2620 TAACTGTCTG	2630 TCAACGGTAA	2640 ATCGACTTAG
2650 AGGGGCTTAT	2660 TGAGCCTTAC	2670 AGGCGATATT	2680 AGCCCCTCTT	2690 GGAGGCTTTA	2700 AGGAGTTGAT
2710	2720	2730	2740 TGGAAAACAA	2750	2760 TCCCGAGCCC
•					2820
AGCGGCGGCA	AGCGTTACGG	TCCAGCTGGT	TCAGCTGGT	AGTGTGGCT	AAAGCCACGG
2830 TTTAAAAAA	2840 GCAGTTCAGC	2850 GGTTTTTGCT	2860 GATCTGCTT	2870 TIGGGGTTT	2880 A AAAACGCAAT
2890	2900	2910	2920	293	0 2940
TTTTGGCGTT	TTCTTCTTAT	CTTGATACTA	TTAGCAACA	A CTAGITITT	r aaaatcaagc
2950 TTGATTAGGC	2960 TTAATTGGGC	2970 TTGTATCCA	298 TGATTTAT	0 299 A GGCTTTTGG	0 3000 T GTATTATTAG
3010 GGTTATAAAT	3020 TGGTTGAAAG	3030 AAAGACAAA	304 A TAAAAACCC	0 305 A CGTGCAAAT	0 3060 T CCTAGTTTGG
3070	3080	309	310	0 311	.0 3120
					T AGGGGAAAAG
3130 CCCTATGATG	3140 TCAAGGTTAT	315 AAGCTTATT	0 316 G AAAAAGATA	G TCAGCTCCT	0 3180 PT CACGTGGATA
3190 AACTGGAGGA	3200 GCTTTTTATC	321 TCAGAAATT	0 322 T TTGAAGATA	20 323 AA AACTGAAA	3240 AT GGCAAAGTTA
3250	3260	327	0 328	30 32	90 3300
					IG GCAATCTTAG
3310 AATTTAAAC	3320 G GCACATGA	333 r gtacggggi	O 334 T GTGGTGAA	40 33 ST TTTGCGTT	50 3360 TT CGTAAGATTG
3370 GCGAGCACT	338 T AAAACTTTA	O 339	0 34 FT TTTGTCAT	00 34 AA ACGATIGI	10 3420 GT CCATTGTGTA
343	344	0 345	50 34	60 34	70 3480
ATTGGAGAA	G GAGCATGAA	A AACTCGAGC	C AGTTAAAA	CA AATTATTO	CG GAAGCAGTTG
349 CAAGAGAGC	0 350 C TAAAGGACG	0 35: G TTTTTGTT	LO 35 PT TAACTTTA	20 35 AC CGTTAAA	330 3540 AC GCTCATTCAG
355 CAGAGGAGT	356 T AAAAGTGTC	0 35' T TTAAGAGC	70 35 IT TGACTAAA	IGC CITTAATA	3600 AAG CTAACTCGCT
_					FIG. 5C

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Apply No.: 09/778,516 Apply t(s): Wei-Yu Lo et al. LAC SHUTTLE VECTORS



		•		•		· i
3610 ATAAAAAAGT GA	3620 CTAAAAAT TTI	3630 ATTGGGTT A	3640 TTTACGTTC	3650 AACGGAAATT	366 ACCGTTAAT	60 IG
3670 AACAAGACGG GI	3690	3690	3700	3710	372	20 ,
3730 TTAAGAATTC AA	3740 AATAATTAT TT	3750 AGCACAAG C	3760 AGAATGGGC	3770 AAAATTATGG	370 CAAAAAGC	
TGAAAGTTGA T		GGTGCATG T	rgcaggcigi.	TAAAGCTAAC	AMACGIAA	no
GAACTGACTC T		TGCCGAAG A	AAACGGCGAA	ATACGAGGIA	AAAICAGC	.10
ATTATATGAC G		GCGTAATT '	TGGTGGTGA'I	TAAAAATTIG	GAGIAIG	JC1
TAGCTGGAAC A		CIAIGGIG	GATTATTAAA	GCMMIIM	, cancarra	• • • •
AACTTGAAGA T		FIGATITAG	TICAIGIIG	S CGATGAAGAT	I TACACCA	AAG
AGCAAATGGA A	4100 AGCTGCGGAA G	AAGTTGTCG	CAAAA'IGGG	A TITTAATAA	A CANANII	VII
TTATTTGGTA A	4160 AAGAGAATGT C	AGGATATGA	TCTCCCGAT	C CCTATGGT	C GACICIC	AGI
ACAATCIGCT (4220 CTGATGCCGC A	TAGTTAAGC	CAGTATCIG	C 10001GC11	.G IGIGIIC	30110
GTCGCTGAGT	4280 AGTGCGCGAG C	AATTTAAAA	GCTACAACA	M GGCMAGGC1	II GACCOIN	
TGCATGAAGA	4340 ATCTGCTTAG (GTTAGGCGT	Tricceci	SC TICGITAGE	AM GCARAC	IMG
4390 AGTGTGTTGA	4400 GTAGTGCAGT	4410 ATCTTAAAAT	44: TITGTATA	20 44: AT AGGAATIG	30 AA GTTAAA	4440 TTAG
ATGCTAAAAA	4460 TTTGTAATTA	AGAAGGAGI	ATTACATG	AT TGGCAGCC	MG ICICCO	
ATTAATGAAC	4520 TTGGACATGG	TTGACGACC	GGICITIG	CA AGCCGAAI	TC GACCAN	41010
GCGGCCGTTA	4580 CTAGGGTATC	GATCCGATA	A AAAGITAG	GC GNCGGC11	110 00010	01000
AGCAGACGGT	4640 AAGGTCTACG	CGCCATTIG	C CGGIACI	or Coccase.	166 CCrio	
GCACTCGATC	4700 GTCCTGGAAA	ATGAACATG	g gererie	SIC TIGATIO	ACC 1100C	.01000
	4760 TTAAACGGGA	477	n 4	780 4	790 GCA GCCAG	4800 GTAGA
			,		FIG.	טט

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licant(s): Wei-Yu Lo et al. LAC SHUTTLE VECTORS



4810 AGCCGGCCAG CA	4820 AGATCCTGG AA	4830 TTCTGGGA CC	4840 CCCCCATC	4850 AAGCAGGCCA A	4860 AGCTGGACGA
4870 CACGGTAATC GT	4880	4890	4900	4910	4920
	4940	4950	4960	4970	4980
	5000	5010	5020	5030	5040
	5060	5070	5080	5090	5100
5110	5120	5130	5140	5150	5160
AAGCCAGGAA G	5180	5190	5200	5210	5220
GCTGATTGAC T	'ACGCTGAAA A	CGGCCAGGG F	5260	5270	5280
CGATAGCAAT T	TTAAGTCAG T	CAAAGTACC (CGCAACCIG	GAACIGCAAG 5330	5340
GCCCCAGTAT (EZGO	ATATCCAIG (GGACGGCAG 5380	5390 5390	5400
AATTCCAAGC A	AAAAATCCGC I	CCCTTCTTA '	TGTCAGATA	TITGACCIGG	ATGAAGCTTT 5460
CTGGGACAAG (GAAGTCAGCT I	GAAGTTIGA	CGGGGGGGG	A ACAGCCATC	ATGICIGGCT 5520
GAACGGCCAC '	TICGICGGCT 1	ACGGGGAAGA	CICCITIAC	C CCAAGCGAG	liniodine
CAAGTTCCTC	AAGAAAGAAA	ATAACCGCCT	GGCAGIGGC	T CICTACAAG	5580 T ATTCTTCCGC
CICCIGGCIG	GAAGACCAGG	ACTICIGGCG	CATGICIGO	ST TIGITCAGA	0 5640 T CAGTGACTCT
TCAGGCCAAG	CCCCCICICC	ACTIGGAGGA	CCTTAAGC		T TGACCGATAA
CTACCAAAAA	GGAAAGCTGG	AAGTCGAAGC	CAATATIG	C TACCGCTTG	50 5760 CC CAAATGCCAG
5770 CTTTAAGCTG	5780 GAAGTGCGGG	5790 ATAGTGAAGG	58 TGACTTGG	00 581 TT GCTGAAAA	LO 5820 GC TGGGCCCAAT
5830 CAGAAGCGAG	5840 CAGCTGGAAT	5850 TCACTCTGGC	58 TGATTIGC	60 58' CA GTAGCTGO	70 5880 CT GGAGCGCGGA
5890 AAAGCCTAAC	5900 CTTTACCAGG	5910 TCCGCCTGTA	59 TTTATACC	20 59 'AG GCAGGCAG	30 5940 CC TCTTAGAGGT
EOEO	. 5960	5970) 5 <u>9</u>	80 59 AAA GACGGGAT	90 6000 TA TGTACCTTAA
					FIG. 5E

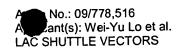
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Approviol.: 09/778,516
Approvint(s): Wei-Yu Lo et al.
LAC SHUTTLE VECTORS



					٠.	. •
6010 CGGCCAGCGG	6020 ATOGTOTTCA A	6030 AGGGGGCCAA	6040 CCGGCACGAA	6050 TTTGACAGTA	0606 DOTTOGOTOG	3)
	6080	6090	6100	6110	6120,	
_ :	6140	6150	6160	6170	6180	•
6190	6200	6210	6220	6230	6240	
CGGCCTTTAC	GTCATTGATG	AAGCTAACCT	GGAAAGCCAC	GGCACCTGGG	AAAAAGIGGG	i
GGGGCACGAA	GATCCTAGCT '	ICAATGTTCC	AGGCGATGAC	CAGCATTGGC	TGGGAGCCAG	}
CTTATCCCGG	6320 GTGAAGAACA	TGATGGCTCG	GGACAAGAAC	CATGCTTCAA	TCCTAATCTC	÷
6370 GTCTTTAGGC	6380 AATGAGTCTT	6390 ACGCCGGCAC	6400 TGTCTTTGCC	6410 CAAATGGCTG) 6420 ATTACGTCCC	3 3
6430 GAAGGCTGAT	6440 CCGACCCGGG	6450 TTCAGCACTA	0460 TGAAGGGGT	6470 ACCCACAACO) 6480 C GGAAGTTIG	0 A
6490	6500 CAGATTGAAA	6510	6520	653	0 6540	0
6550	6560 CCAGCCAAGC	6570	658	0 659	0 660	0
6610	6620	6630	664	o 665	0 666	0
6670	CTGGCCGCCT 6680	6690	670	0 671	.0 672	0.0
CATCTGGGAC	TGGATTGACC	AAGGACTGG	A AAAAGACGG	G CACCIGCIA	A A I GGGGGCG	3 63
CTTCGATGAC	6740 CGGCCAACCG	ACTATGAAT	r Cigoggaa	ic eccreer	JI IIGCIGACC	_G
GACTGAATCG	6800 CCGAAACTGG	CTAATGTCA	A GGCCCTTTI	AC GCCAACCI	IA AGITAGAA	40 GT
0850 OOOTADAAAA	6860 CAGCTCTTCC	687 TCAAAAACG	0 688 A CAATTTAT	80 68: PT ACCAACAG	90 69 CT CATCTTAC	00 TA
6910	6920 AGICITIIG	693 TCGATGGCA	0 69- A GTTGACCT	40 69 AC CAGAGCCG	50 69 GC CTCTGACC	60 TT
6970	6980 CCTGGCGAAT	. 699	n 70	00 70	10 70	20
. 7030	7040	705	in 70	60 70	70 70	080
700	GTCGTCTACC	711	ın 71	20 71	130 71	140
TGAGGGCTT	C ACTGTGGCTV 0 716	S AAGCAGAAC	SA AGTAGCTO	AA AAGCTGC	CG AATTAAC	300
GGAAGGGCG	G CCAGATITA	G TIGATICO	GA CTACAACC	TA GGCCIGA	FIG. 5	CIT
						<i>,</i> ,

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					•
7010	7220	7230	7240	7250	7260
CCAAATICIC T	7220	7230	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	אראשנדשמאר (ר	TYTACYCA .
CCAAATTCTC T	TCTCCAAGG TC	AAGGGC1G G	ccognitice (TOMOTUTO C	,
				7710	7220
7270	7280	7290	7300	/310	7320
ATACTTGAAG C	GGCTGCCGG A	ATTTACCTT (TGGCGGGCC (CTGACGGACA A	CGACCGGGG
7220	7340	7350	7360	7370	7380
AGCTGGTTAC C	02C1		ייציווע עע עניב	CCCAACTATG C	CCGCTTGAA
AGCIGGITAC G	SCIAIGAIC I	GGCCCGG1G (JOHN HITOCC	00021011110	
		5440	7400	7/20	7440
7390	7400	7410	7420	7430	7440
AGACATCAGC	IGCGAGGTCA A	GGAAGACTC	CGTTTTGGTC	AAGACIGCCI	MACGINGCC
7450	7460	7470	7480	7490	7500
TGTCGCCTTA A	A A COCONCIA MITH. III	שאררכיווכאר	CTATGAAGTC	GATGGACGGG (CAAGATTGC
•		7520	7540	7550	7560
7510	7520	/530	7540	TOOO KOOOM	A REMINISTORY
TGTAACAGCT (GACTTCCCAG G	CGCGGAAGA	AGCIGGICIC	TTGCCAGCCT	1166C11GAA
7570	7580	7590	7600	7610	7620
CARCELLARGE (CAAAAGAAC T	GACCGATTA	CCGCTACTAT	GGTCTGGGAC	CTAATGAGAG
2620	7640	7650	7660	7670	7680
/630	7040	TEXT KITTING KITTE	CCCATCTAC	CAGGGAGCGG	TAAAAAAGAA
			7700	7730	7740
7690	7700	7710	7720	7/30	7740
CTTTAGCCCA	TATCGTCCGC A	AGGAAACGGG	CAACCGGAGC	AAGGTTCGCT	GGTACCAGCT
011111000					
7750	7760	7770	7780	7790	7800
4 & COM & COMPANY	A ACCOCCCCCT	חאביבא אחיוויא מ	GGCCAATGGG	GCAGACTIGA	ACTIGICIGC
	2000	7030	7840	7850 C GCTTTTGAAC	7860
7810	7820	7030	7050		TCACTAACAA
TTTGCCATAT	TCTGCCGCCC	AAA'I'IGAAGC	AGCGGACCAC	, GCIIIIGAAC	Igneman
7870	7880	7890	7900	7910	7920
TTACACTTGG	GTTAGAGCCT	TAAGCGCCCA	, GATGGGGGT(C GGCGGGGATG	ACTCCTGGGG
7930	7940	7950	796	0 7970	7980
20201	TAKTOOOKO	שלים ליולילים	TYCTCAAAA	A GCCCGCCAGC	TICGCCIGGT
	0000	001	902	n 8030	8040
7990	8000	8010	002	∪ ∪ ∪ ∪ ∪ ∪ ∪ ∪ ∨ ∨ γ γ γ γ γ γ γ γ γ γ	יוב)עיניניניניעעע נ
GATTCAGCCC	CTTTTACTAA	AATAAATGC	I ACAATIGAC	T TAACAGGAT	TDATTTTAAA E
8050	8060	807	808 0	10 809	8100
DAAATOAAA	CGAGTGAGGA	AGATGGCAA	C GATCAGAGA	A GIGCCAAGG	C AGCCGGCGTG
. 0440	9120	ยาว	0 814	10 815	0 8160
8110	0120	313	J 01.		
TCGCTAGCGA	COGTC		• • • • • • • • •		TA FA
				-	TG. 5G

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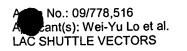
Approximation No.: 09/778,516
Approximation No.: Wei-Yu Lo et al.
LAC SHUTTLE VECTORS



		•			, ·	
10	20	30	40	. 50	.60	19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CATCTACCGG	CCAGATATAC	UE TADAETTEDE	TGATTATTGA	CTAGTTATTA	ATAGTAATCA	
G110111CCCC					5	4
70	80	90	100	110	120	•
ATTACGGGGT	CATTAGTTCA '	TAGCCCATAT	ATGGAGTTCC	GCGTTACATA	ACTTACGGTA	
120	140	150	160	170	180	and the Later
Janacara 4	CTGGCTGACC	CCCAACGAC	CCCCCCCAT	TGACGTCAAT	AATGACGTAT	
190	200	210	220	230	240	
GTTCCCATAG	TAACGCCAAT	AGGGACTTTC	CATTGACGTC	AATGGGTGGA	CTATTTACGG	
250	260	270	280	290	300	•
	ACTIGGCAGT	ACATCA ACTG	TATCATATGC	CAAGTACGCC	CCCTATTGAC	
310	320	330	340	350	360	
GTCAATGACG	GTAAATGGCC	CGCCTGGCAT	TATGCCCAGT	ACATGACCTT	ATGGGACTTT	
250	380	300	400	410	420	
370 370	AGTACATCTA	רבידאידיאריביר) אדינו אייני	ATTATTAT	CCATGGTGAT	GCGGTTTTGG	
430	440	450	460	470	480	
CAGTACATCA	ATGGGCGTGG	ATAGCGGTTT	GACTCACGGG	GATTTCCAAG	TCTCCACCCC	
400	500	. 510	520	530	540	
490 2000 2000 A	ATGGGAGTTT	CALALALAC	CAAAATCAAC	GGGACTTTCC	AAAATGTCGT	FIG. 6A
						1 1
550	560	570	580	590	600)
AACAACTCCG	CCCCATTGAC	GCAAATGGGC	GGTAGGCGTG	TACGGTGGGI	A GGTCTATATA	\
C1.0	620	630	640	n' 650	. 660	FIG. 6B
ACCACACCTO OTO	TCTGGCTAAC	ТАСАСААСТ	ACTGCTTACT	GCTTATCG	A AATTAATACO	i i
						├
670	680	690	700	71	720	
ACTCACTATA	GGGAGACCCA	AGCTTGGTAC	: CGAGCTCGG/	A TCCACTAGIN	A ACGGCCGCC	FIG. 6C
720	740	750	76	n 7 7	0 780	0 1 1
7.27	ATTCTGCAGA	TATTCATTAT	ACTGGCGGC	C GCTCGAGCA	T GCATCTAGA	Ğ
790	800	810	82	0 83	0 84	<u>0</u> i 50 50 i
GGCCCTATIC	008 TATAGTGTCA	CCTAAATGCT	r AGAGCICGC	T GATCAGCCT	C GACIGIGCC	T FIG. OD
05/	860	970	n 88	ი 89	0 90	0
אבאויים עיייאה אבאויים עיייאה	AGCCATCIGI	ACALALACO SACALALACA SACALACA	TCCCCCGTG	C CTTCCTTGA		
ICIAGIICO						: :
910	920	930	94	0 95	96	FIG. 6E
GCCACTCCC	A CIGICCITIC	CTAATAAAA!	r gaggaaatt	G CATCGCATI	G TCIGAGIAG	^G ii
07/	0 980		100	n 101	0 102	o H
970	O 980 A TICIGGGGG	יעבר איני איני איני איני איני איני איני אינ	CAGGACAGC	'A AGGGGGAGG	A TTGGGAAGA	
TGTCATTCT	i irrinama					FIG. 6F
103	0 1040	105	0 106	50 107	70 108	30
AATAGCAGG	C ATGCTGGGGA	TGCGGTGGG	C TCTATGGC1	T CTGAGGCG	SA AAGAACCAG	C J
4.00	0 1100	, 111	0 111	on 11.	30 114	
109 macamaan	O 1100 G AATCGGCCAA	/ USUSUSSES TTT	A GAGGCGGTT	TT GCGTATTG	eg cectetice	YG I
ICCALIMAL	G WYTCGGCCW					1 110. 00 1
115	0 1160	117	0 118		90 120	
CTTCCTCGC	T CACTGACTO	CIGCGCICG	G TCGTTCGG	CT GCGGCGAG	CG GTATCAGC	
					CIC R	Λ

FIG. 6A

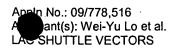
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					•
1210 ACTCAAAGGC G	1220 GTAATACGG TTA	1230 ATCCACAG A	1240 ATCAGGGGA T	1250 AACGCAGGA AA	1260 GAACATGT
1050	1200	1290	1300	1310	1320
GAGCAAAAGG C					
1330 ATAGGCTCCG C	1340 CCCCCTGAC GA	1350 GCATCACA A	1360 AAATCGACG	1370 TCAAGTCAG A	1380 GGTGGCGAA
1390	1400	1410	1420	1430	1440
ACCCGACAGG A	CTATAAAGA TA	CCAGGCGT T	rececting a	AAGCICCCIC G	100001010
1450 CTGTTCCGAC	1460 CCTGCCGCTT AC	1470 CGGATACC I	1480 GTCCGCCTT	1490 TCTCCCTTCG	1500 GAAGCGTGG
	1520	1530	1540	1550	1560
CGCTTTCTCA I	ATGCTCACGC TO	FIAGGIATC T	CAGIICGGI	GINGGICGII (,001041.00
1570	1580	1590	1600	1610	1620 CTAACTATC
	GCACGAACCC CC				
1630	1640 CAACCCGGTA A	. 1650 SACACGACT '	1660 TATCGCCACT	GGCAGCAGCC	ACTGGTAACA
	4500	1710	1720	1730	1740
GGATTAGCAG	AGCGAGGTAT G	TAGGCGGIG	CIACAGAGII	CITGAAGIGG	10000111101
1750	1760	1770	1780	1790	1800
ACGGCTACAC	TAGAAGGACA G	TATTTGGTA	Telececies	GCIGAAGCCA	GIMCCIICO
1810 GAAAAAGAGT	1820 TGGTAGCTCT T	1830 GATCCGGCA	1840 AACAAACCAC	1850 CGCTGGTAGC	1860 GGTGGTTTTT
1870	1880 GCAGCAGATT A	1890	1900	1910 TCAAGAAGAT	1920 CCTTTGATCT
1930 TTTCTACGGG	1940 GTCTGACGCT (1950 DAGTGGAACG	AAAACTCAC	TTAAGGGATT	TTGGTCATGA
	0000	2010	202	n 2030	2040
GCGGATACAT	ATTIGAATGT	ATTTAGAAAA	ATAAACAAA	r AGGGGTTCCC	CGCACATTIC
2050	2060	2070	208	0 2090	2100 A TICTCTTTAC
	GCCACCTGAC				2160
2110	2120	2130 ATTAAAATCC) 214 CATTTTGCC	A CAACTICITY	CCCACCTTCC
	0100	2100	220	00 221	0 2220
ATTIGCTCT	TGGTGTAATC	TTCATCGCC	A ACATGAACT	A AATCACCAT	1 Clariano
2230	2240	2250	220	50 · 227	0 2280
TCAAGTTTC	A AATCTTGCTT	AATTIGCTI	r AATAATCU	ac cuructor	T TTGTCGTGTT
CCAGCTAAG	G CATACTCCAA	ATTTTTAAT	C ACCACCAA	AT INCOCION	0 2340 C ATCAGCCGTC
235	0 2360	237	0 23	80 239	90 2400 SC TYSCAAAGAG
ATATAATCA	G CTGATTTTAC	CTCGTATTT	C CCCLLLC	II COCCUCIAN	TIG. 6B
				Г	IG. UD

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2410 TCAGTTCCTT TA	2420	2430	2440 CTGCACAT (2450 GCACCACAGG (2460 TCATAATCA
TCAGITCCTT TA	CGIIIGII AG		2500	2510	2520 ····
2470 ACTITICAAGG CT	2480 TTTTGCCA TAI	2490 ATTTTGCC C	ATTCTGCTT	GTGCTAAATA	ATTATTTGAA
	2540				
2530 TTCTTAAAAT AA	2540 CTTGATTT TA	CAAACAGC A	ACACATGCA	AGTGTTGATT	ATATGACCCG
2590	2600	2610	2620	2630	2640
TCTTGTTCAT TA	ACGGTAAT TI	CCGTIGAA C	GIAAATAAC	CCARIAMII	1111.010.01
2650	2660	2670	2680	2690	2700
TTTTTATAGC GA	AGTTAGCTT AT	TAAAGGC1 1	TAGTCAAAG	CICITAMO	<u> </u>
2710	2720	2730	2740	2750	2760
TCCTCTGCTG A	ATGAGCGTT TI	TAACGGIT A	AAGITAAAA	ACAAAAACCG	10011111000
2770	2780	2790	2800	2810	2820
TCTCTTGCAA C	TGCTTCCGC A	ATAATTIGI I	MITAACIGGC	TCGAGITITI	CAIGCICCII
. 2030	2840	2850	2860	2870	2880
2830 CTCCAATTAC A	CAATGGACA C	AATCGTTTA 7	rgacaaaacc	ACGTTTGATA	AAGTTTTAAG
Cicazii		2012	2020	2930	2940
2890 TGCTCGCCAA T	2900 ממאר או אוייי	Z9IU TOAAACT 1	TCACCACAAC	CCCGTACATC	ATGTGCCCGT
TGCTCGCCAA 1	CIIACGAAA A	COCATATION			3000
2950	2960	2970	2980 2980 cm) 2990 רידייאמארייייייייייייייייייייייייייייייי	3000 COGITCICGC
TTAAATICTA A	GATIGCCAA A	TATICGGCA	TAGCGCACA.	I III CHILCE.	
3010	3020	3030	3040	3050	3060 AAAAAGCTCC
CAAGGICTAA (TTTGCCATT T	TCAGTTTTA	TCTTCAAAA	A TTTCTGACA	C AAAAAGCTCC
	2000	2000	310	ი 311	3120
3070 ጥረጥጣንልግግ	CACGTGAAG	AGCTGACTA	TCTTTTTCA	A TAAGCTTAT	A ACCTTGACAT
ICCAGITI			21.0	0 317	ი 3180
3130	3140	3150	ልደረጉር ለፈፈጉርንጥል	о Т САТААТСАА	0 3180 C TCACGTGTTC
CATAGGGCIT '	TICCCCIAGA A	ATAGGCIAIA	MICOCIA	_	- 2040
3190	3200	3210	322	323	0 3240 T TCAACCAATT
CGAGCGGCCA	AACTAGGAAT '	TTGCACGTGG	GITTIATI	'I IGICITICI	T TCAACCAATT
3250	3260	3270	328	30 329	3300
TATAACCCTA	ATAATACACC	AAAAGCCTAT	AAAATCAA!	IG GATACAAGO	C CAATTAAGCC
		2220	33.	۸n . 33!	3360
3310	3320	UCCC PTTPATTAGG	TIGCTAAT	AG TATCAAGA	TA AGAAGAAAAC
TAATCAAGCI	1/2/111 Tings			24	10 3420
3370	3380	3390	34	00 34 2002 444 50	10 3420 CT GAACTGCTT
GCCAAAAATT	GCGTTTTTAA	ACCCCAAAAA	GCAGATCA	GC AAAAACCO	CT GAACTGCTTT
3430	3440	3450	34	60 34	70 3480
TTTTAAACCG	TGGCTTTCAG	CCACACTGAC	CAGCIGAA	CC AGC1GGAC	
•		251/	. 35	35	3540
3490	UUCE AAAASSYYYY	CAAGGGCTT	3 TITTCCAP	GA CCTCACCC	TT TIGGTATIGT
(6(6(166		•		20 39	 3600
3550	3560	3570	رىلىكتىتىتىلار ت 3;	AAT ATCGCCT	3600 STA AGGCTCAATA
CTAGTCTATC	AACICCITAA	MCCTCCAM	G NOOGOLII		FIG. 6C
					IIG. UU

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AGCCCCTCTA AGTCGATTTA CCGTTGACAG ACAGTTAGAT AGCTAACTGT TAGCTAAAAT CCCTTAGAAC GCAAATAAGA GCCTTTAAAA TTAACGTTCA AAAATAAAAA AGTTCGAAGG AGCTAGCGAC TGAACTTATT TATTTTTGAA TGTTCCAAAC TGACGCAAGT CAGTTACGTT TGTGTAAGTG CGCACTACAT GATAATGCGC ACTACATGAT AATGCGCACT ACATGATAAT GTGCGCACTA CATGATAATG CGCACTACAT GATAATGTAC ATGATAATGT GCGCACTACA TGATAATGCG CACTACATGA TAATGCGCAC TACATGATAA TGCGCACTAC ATGATAATGC GCACTACATG ATAATGCGCA CTACATGATA ATGCGCACTA CATGATAATG TGCACTTACA CTCCAAATAA ATTGGAGTAA TGCTAAAACC TGTATCAGAA GTCAGCAAGC TGACAACAAA AAAGGGATAT GCCAACGGAT TTACCGTTGA TCTCCCGATC CCCTATGGTC GACTCTCAGT ACAATCTGCT CTGATGCCGC ATAGTTAAGC CAGTATCTGC TCCCTGCTTG TGTGTTGGAG GTCGCTGAGT AGTGCGCGAG CAAAATTTAA GCTACAACAA GGCAAGGCTT GACCGACAAT TGCATGAAGA ATCTGCTTAG GGTTAGGCGT TTTGCGCTGC TTCGTTAGAA GCAAACTAAG AGTGTGTTGA GTAGTGCAGT ATCTTAAAAT TTTGTATAAT AGGAATTGAA GTTAAATTAG ATGCTAAAAA TITGTAATTA AGAAGGAGTG ATTACATGAT TGGCAGCCAG TCTCCGGGCA ATTAATGAAC TTGGACATGG TTGACGACCC GGTCTTTGCA AGCCGAATTC GACCACACTG GCGGCCGTTA CTAGGGTATC GATCCGATAA AAAGTTAGGC GACGGCTTTG CCCTGGTGCC AGCAGACGGT AAGGTCTACG CGCCATTTGC CGGTACTGTC CGCCAGCTGG CCAAGACCCG GCACTCGATC GTCCTGGAAA ATGAACATGG GGTCTTGGTC TTGATTCACC TTGGCCTGGG CACGGTCAAA TTAAACGGGA CTGGCTTTGT CAGCTATGTT GAAGAGGGCA GCCAGGTAGA FIG. 6D

J	APPROVED	O.G. FIG.		
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Applied: s): Wei-Yu Lo et al.
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					36.10	
4810	4820	4830	4840	4850	4860	
AGCCGGCCAG CA	GATCCTGG AAT	TCTGGGA CCC	GGCGATC AA	GCAGGCCA AC	CTGGACGA	`
Account				4010	. 4020	
4870	4880	4890	4900	4910 - 10000000	4920	
CACGGTAATC GI	GACCGTCA TC	AACAGCGA AA	CITICACA AA	MAGCCAGA I	SCICITOCC 5	,
4870 CACGGTAATC GI	4040	4050	4960	4970	4980	.
GATCGGCCAC AC	7440 2442277	יור בארעניבאויר דאר מטראיר מיבאויר	TATTCAAG T	ragaaggga A	GAATTAĞAA .	3
4990	5000	5010	5020	5030	5040	
AATGAGCAAT A	AGTTAGTAA AA	GAAAAAAG AG	TTGACCAG G	CAGACCIGG C	CIGGCIGAC	
5050	5060	5070	5080 5080 m	UEUE A DRADOADON	ACCULACATOR	
TGACCCGGAA G	TTTACGAAG TC	AATACAAT 10	CCCCGCAC 1	CCGACCA1G 1	.orcerrea.	
F110	5120	5130	5140	5150	5160	
5110 AAGCCAGGAA G	AACTICAGG AG	GGCAAGIC C	GTTTAGTG C	AGTCCCTGG A	ACGGGGACTG	
AAGCCAGGAA G	AACIGGIOO					
5170	5180	5190	5200	5210	5220	
5170 GCTGATTGAC T	ACGCTGAAA AC	CGCCAGGG AC	CAGTCAAC 1	TCTATGCAG	AAGACTITGA	
	5240	5250	5260	5270	5280	
5230 CGATAGCAAT T	5240	525U משמא ארב אר	CCAACCTG (FAACTGCAAG	GCTTTGGCCA	
5290	5300	5310	5320	5330	5340	
GCCCCAGTAT (TCAACGTCC A	ATATCCATG G	GACGGCAGT (GAGGAGATTT	TCCCGCCCCA	
00000				F200	5400	
5350	5360	5370	5380 2606262000	DESC.	PPPSAGPRA	,
AATTCCAAGC A	AAAAATCCGC T	CGCTTCTTA I	GICAGAIAC	11101.00100		
E 410	5420	5430	5440	5450	5460)
OTFC	GAAGTCAGCT T	GAAGTTIGA C	CGGGCGCCA	ACAGCCATCT	ATGTCTGGCT	r
CIGGGACANO	41.01 4.000			===0	550	^
5470	5480	5490	5500	5510	≀∆ԵՇ)∡ՊՎԻՀՆՈՒՀՊԿՈ	
GAACGGCCAC	TICGICGGCT A	CGGGGAAGA (TCCTTTACC	CCAAGCGAGI	1171001111	•
5500	5540	5550	5560	5570	558	0
5530	AAGAAAGAAA AAGAAAAAA	ΩΩΩΩΥΩΑΑΨ <i>ι</i>	GCAGTGGCT	CTCTACAAGT	ATICTICCG	C
CAAGIICCIC	WWGWWWGWWW I	TIPICCOCCI (
5590	5600	5610	5620	5630	564	•0 •0
CTCCTGGCTG	GAAGACCAGG	ACTICIGGCG	CATGTCTGGT	TIGITCAGAT	, CAGIGACIC	.1.
			5680	5690	n 570	00
5650	CCGCGTCTGC .	5670	TTODAGTTTO	ACGCCAGC	r TGACCGATA	λA
5710	5720	5730	5740	575	0 576	50
CTACCAAAAA	GGAAAGCTGG	AAGTCGAAGC	CAATATTGCC	TACCGCTIG	C CAAAIGCC	AG
5770	5780	5790	المحاصية والم	CCTCAAAAA	C TGGGCCCA	ΤA
CTTTAAGCTG	GAAGTGCGGG	ATAGIGAAGG	1GAC11GG1	GCIGARANO	C 100000	
E030	5840	5850	5860	587	0 58	80
069C	CAGCTGGAAT	TCACTCTGGC	TGATTIGCC	A GTAGCTGCC	T GGAGCGCG	GA
5890	5900	5910	592	0 593	אר של אווייש פער. אר ביי	74.U
AAAGCCTAAC	CTITACCAGG	TCCGCCIGIA	TTTATACCA	G GCAGGCAGG		
		5070	500	n 599	90 60	000
5950	5960 GAAGTGGGTT	TCCCAACTT	TGAACTAAA	W Chronen		
TAGCCGGCAG	- GWG100011			Ċ	FIG. 6	F
				ľ	10.	<u>_</u>

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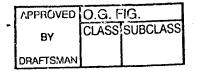
					4
6010 CGGCCAGCGG	6020 ATCGTCTTCA	6030 AGGGGGCCAA	6040 CCGCACGAA	6050 TTTGACAGTA	6060 AGTTGGGTCG
6070	6080	6090	6100	6110	6120
GGCTATCACG					
6130 TGCTGTCCGC	6140 TGCTCTCACT	6150 ACCCGAACCA	GTCCCTCTTT	6170 TACCGGCTCT	6180 GTGACAAGTA
6190	6200	6210	6220	6230	6240
CGGCCTTTAC	GTCATTGATG	AAGCTAACCT	GGAAAGCCAC	GGCACCTGGG	AAAAAGIGGG
6250 GGGCACGAA	6260 GATCCTAGCT	6270 TCAATGTTCC	6280 AGGCGATGAC	6290 CAGCATTGGC	6300 TGGGAGCCAG
6310	6320	6330	`6340	6350 CATGCTTCAA	6360
				6410	
6370 GTCTTTAGGC	AATGAGTCTT	ACGCCGGCAC	TGTCTTTGCC	CAAATGGCTG	ATTACGTCCG
6430	6440	6450) 6460 TGAAGGGT	6470 ACCCACAACO	6480 GGAAGTTTGA
					6540
CGACGCCACC	CAGATIGAAA	GCCGGATGT	A TGCTCCGGC	C AAGGTAATIC	3 AAGAATACTT
6550 GACCAATAAA	6560 CCAGCCAAGC	6570 CATITATON) 658 C AGTTGAATA	0 6590 C GCTCACGCC	O 6600 A TGGGCAACTC
6610 CGTCGGTGAC	6620 CIGGCCGCCI	663 ACACGGCCC	0 664 r ggaaaaata	0 6650 C CCCCACTAC	0 6660 C AGGGCGGCTT
6670 CATCTGGGA) 6680 TGGATTGACC) 669 AAGGACTGG	0 670 A AAAAGACGG	0 671 G CACCIGCIT	0 6720 T ATGGGGGGGA
673 (. 67A	675	ი 676	50 677	0 6780
CTTCGATGA(C CGGCCAACCC	ACTATGAAT	T CTGCGGGAA	C GCCLGGIC	T TIGCIGACCG
679 GACTGAATC	080 CCGAAACTG) 681 G CTAATGTCA	.0 682 A GGCCCTTT	683 AC GCCAACCTI	0 6840 A AGTTAGAAGT
685	0 686	0 687	0 688	80 689	6900
AAAAGATGG	G CAGCICITO	C TCAAAAACG	A CAATTAT		CT CATCTTACTA
691 CTTCTTGAC	0 692 PAGICITIIG	0 693 G TCGATGGC	00 694 AA GTTGACCT	40 699 AC CAGAGCCG	50 6960 GC CTCTGACCTT
697	0 698	269 0 TO COOCA	90 70	00 70	10 7020 AG TCGCTGATGA
					70 7080
AAAAGGGGA	G GTCGTCTAC	C GGGTAACG	GC CCACTTAA	AA GAAGACIT	GC CITGGGCGGA
709 TGAGGGCTT	0 710 C ACTGTGGCT	0 71: G AAGCAGAA	10 71 GA AGTAGCTO	.20 71 CAA AAGCTGCC	30 7140 GG AATTTAAGCC
. 715	716	in 71	70 71	180 71	90 7200
GGAAGGGCG	G CCAGATTT	G TTGATTCC	GA CTACAACC	TA GGCCIGA	ag gaaataactt FIG. 6F

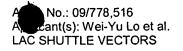
APPROVED	O.G. FIG.			
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						_
	7000	7230	7240	7250	7260 ·	· ·
7210	1220 .	7230		CITA ACTIANCE	7260 CCGGTAGGGA	•
CCAAATICIC T	ICICCAAGG IV	CAAGGGCIG G	CCGTTTCC	CICMGINIO	000011100	
						•
7270	7280	7290	7300	7310	7320	•
7210	200000000000000000000000000000000000000	VILLED VILLED (AUSTO DE LA COLORIA	CTGACGGACA	ACGACCGGGG	•
7270 ATACTTGAAG C	RECTRECE A	ATTIACCIT	10000000	0.0.00	1	•
				7370	1,2,0 U	
7330	7340	7350	7360	7370	7360	
AGCTGGTTAC G	ריביאשניאשיים ש	CCCCCCTC (GGAAAATGCC	GGCAAGTATG	CCCGCTTGAA	
			7420	7430	7440	
7390	7400	7410	/420	7430		
AGACATCAGC T	GCGAGGTCA A	GGAAGACTC	CGTTTTGGTC	AAGACIGCC1	TIACGITICC	•
	2460	7470	7480	7490	7500	
7450 TGTCGCCTTA A	7460	7470	OTO 5 500 500	CARCCACCC	7500	•
TGTCGCCTTA A	AGGGTGATT I	TAACCGTGAC	CTATGAAGTC	GAIGGACGG	0011011100	
			,		55.60	
7510	7520	7530	7540	7550	7560	
7510 TGTAACAGCT G	3200000000 C	TOTOTO A GA	ACCIPCITY	TTGCCAGCCT	TTGGCTTGAA	
TGTAACAGC1. G	ACTICCAG (CGCGGAAGA	AGC1GG1G1G			
				7610	7620	
7570	7580	7590	7600	1010	7620	
CCTGGCCCTG (י אמאממממר י	TGACCGATTA	CCGCTACTAT	GGTCTGGGAC	CTAATGAGAG	
'_	5540	7650	7660	7670	7680 AADAAAAT :	
7630 CTACCCAGAC	7640	7650	OCCUPATION COCCO	CNCCCNCCC	таааааасаа	
CTACCCAGAC (CCTTCGAAG (GIAATTACCT.	GGGCATCTAC	CAGGGAGCG	, ,	•
7690	7700	7710	7720	7730	7740	
7090	mamy>my>CC	ACCANACCC	CAACCGGAG	AAGGTTCGC	GGTACCAGCI	
CTTTAGCCCA	TATCGTCCGC	VGGWT 1CCCC	42.000			
			770	779	7800 A ACTURATORIO)
7750	7760	7770	170		y VCHALCALACTIC	,
CITTICATGAA	AAGGGCGGCT	TGGAATTTAC	GGCCAATGG	G GCAGACTIG	A ACTIGICIE	•
CITICILL						_
7010	7020	7830	784	0 785	0 7860 C TGACTAACA)
/810	i	2244200444	ACCCCACCA	C CCTTTTGAA	C TGACTAACA	A
			500	. 701	0 792	n
7870	7880	· 7890	790	791	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Č
THE CALLES	CTTAGAGCCT	TAAGCGCCCA	GATGGGGGI	C GGCGGGGAI	G ACTCCTGGG	G
TIACACTIGG	01111011000-					
=020	7040	7050	796	50 797	0 798	0
7930	. /940	7550	מ מ מרכיייים	A CONTONIA	C TTCGCCTGG	T .
GCAGAAGGTC	CACCCGGAAT	TCIGCCIGG	1 IGCICAAAA	M GCCCGC	C TTCGCCTGG	
						^
7990	8000	8010	0 802	20 80.	30 804	
0000	ע עידי עידי איזיין איזיין א	TOTALATICA	r acaatiga	T TAACAGGA'	IG AAATTITAG	3T.
GA'I'ICAGCCC	CITITACIAA	WILLERITOR				
		007	0 00	80 80°	90 810 CC AGCCGGCG	00
8050	8060	807	U	22 000000	יי אכתננגניי	rc .
AAAAGCAAAG	CGAGTGAGGA	AGATGGCAA	C GATCAGAG	AA GIGCCAAG	GC AGCCGGCG	
1222002230						- ^
0110	9120	813	0 81	40 81	50 81	ĎΛ
8110	0120	, 015				• •
TCGCTAGCGA	COGTC	• • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		
				}	FIG. 60	•







1 2 3 4 5 6 7 8 9 10



Fig7A

1 2 3 4 5 6 7 8 9 10

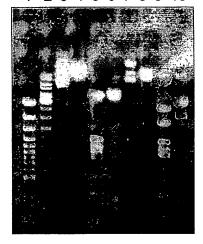


Fig.7B